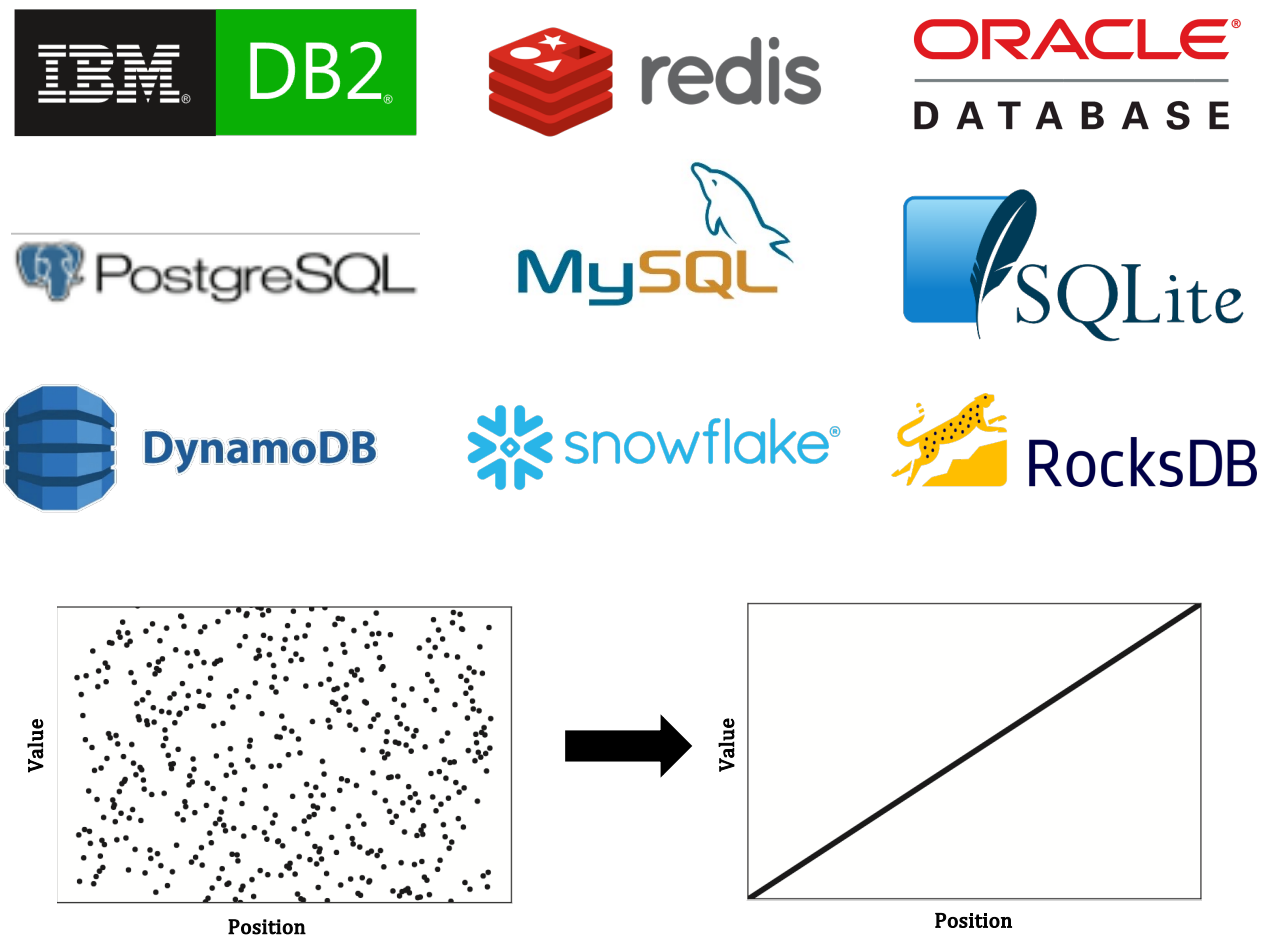
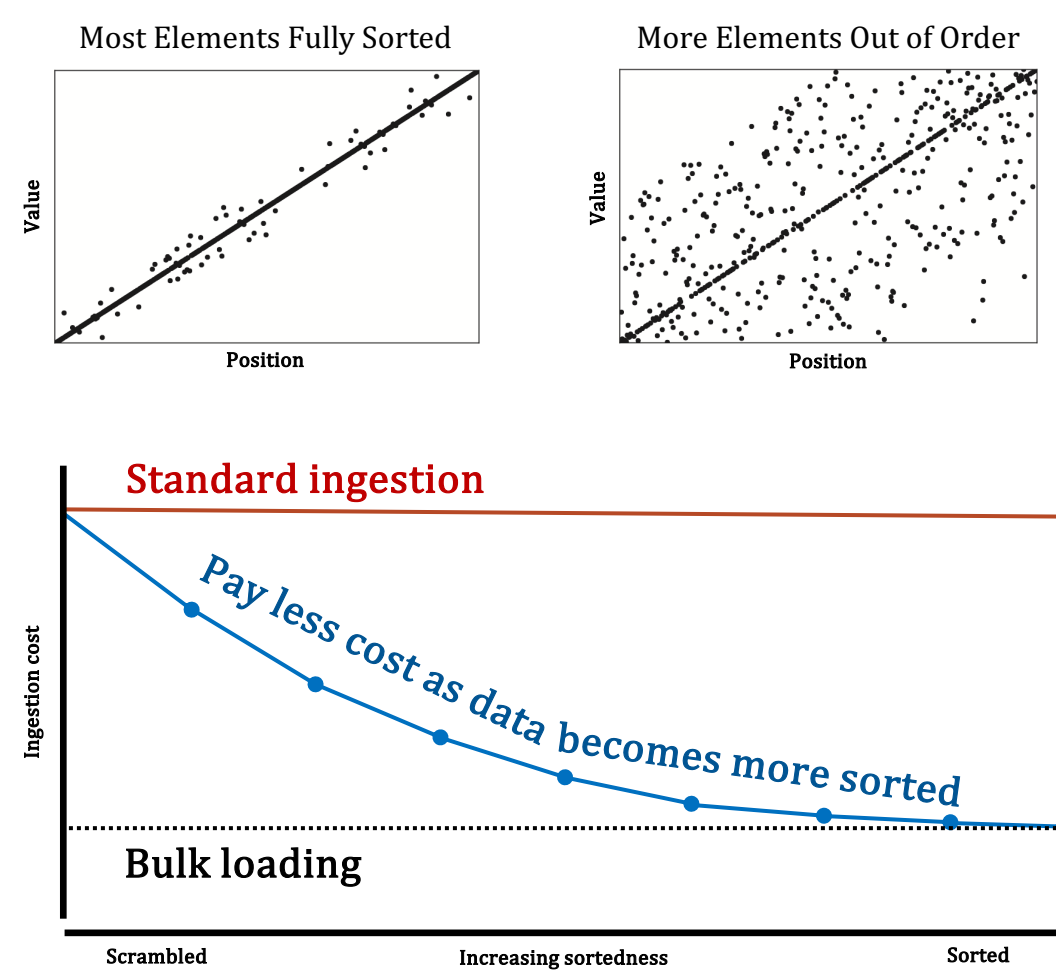


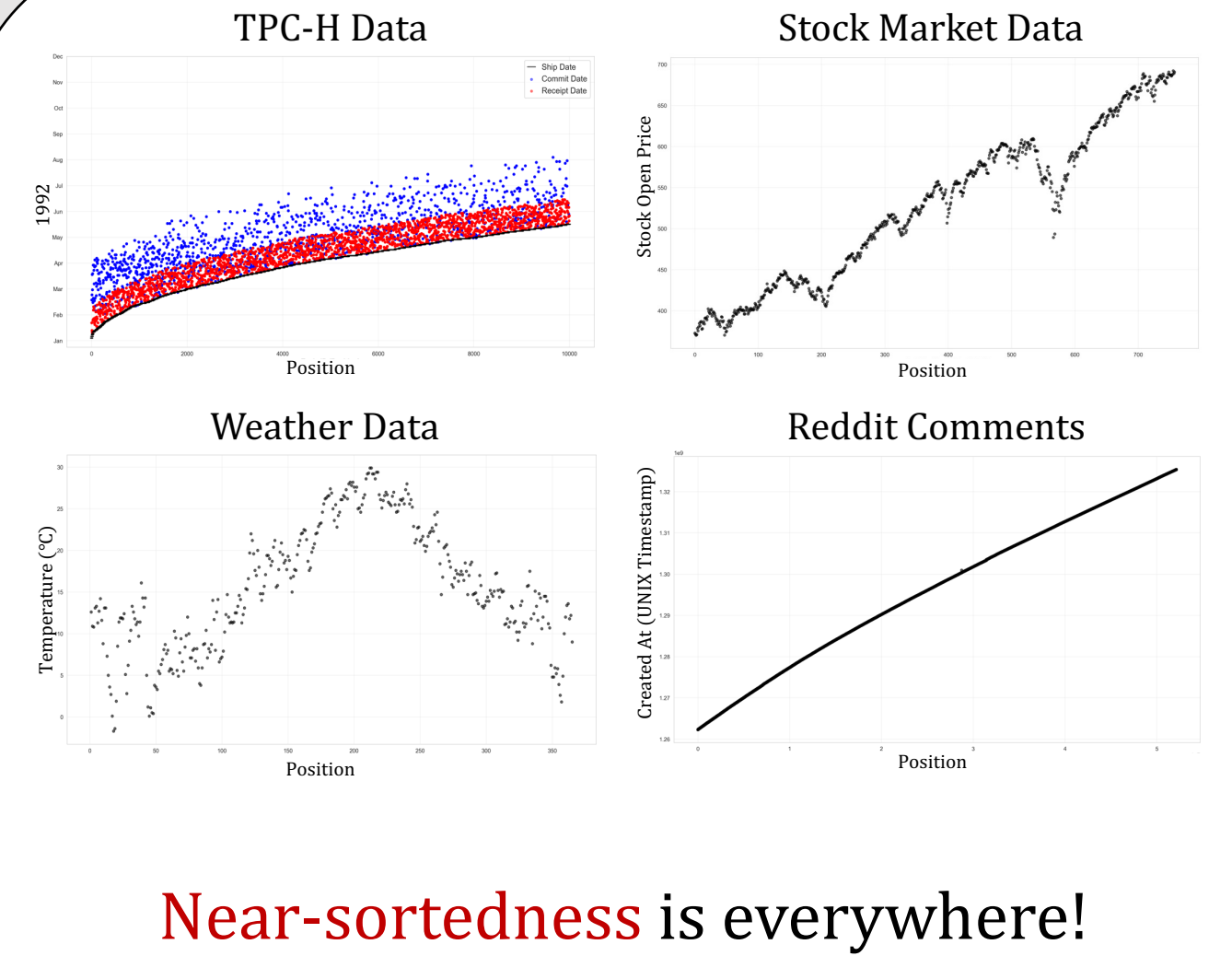
Indexing Adds Structure



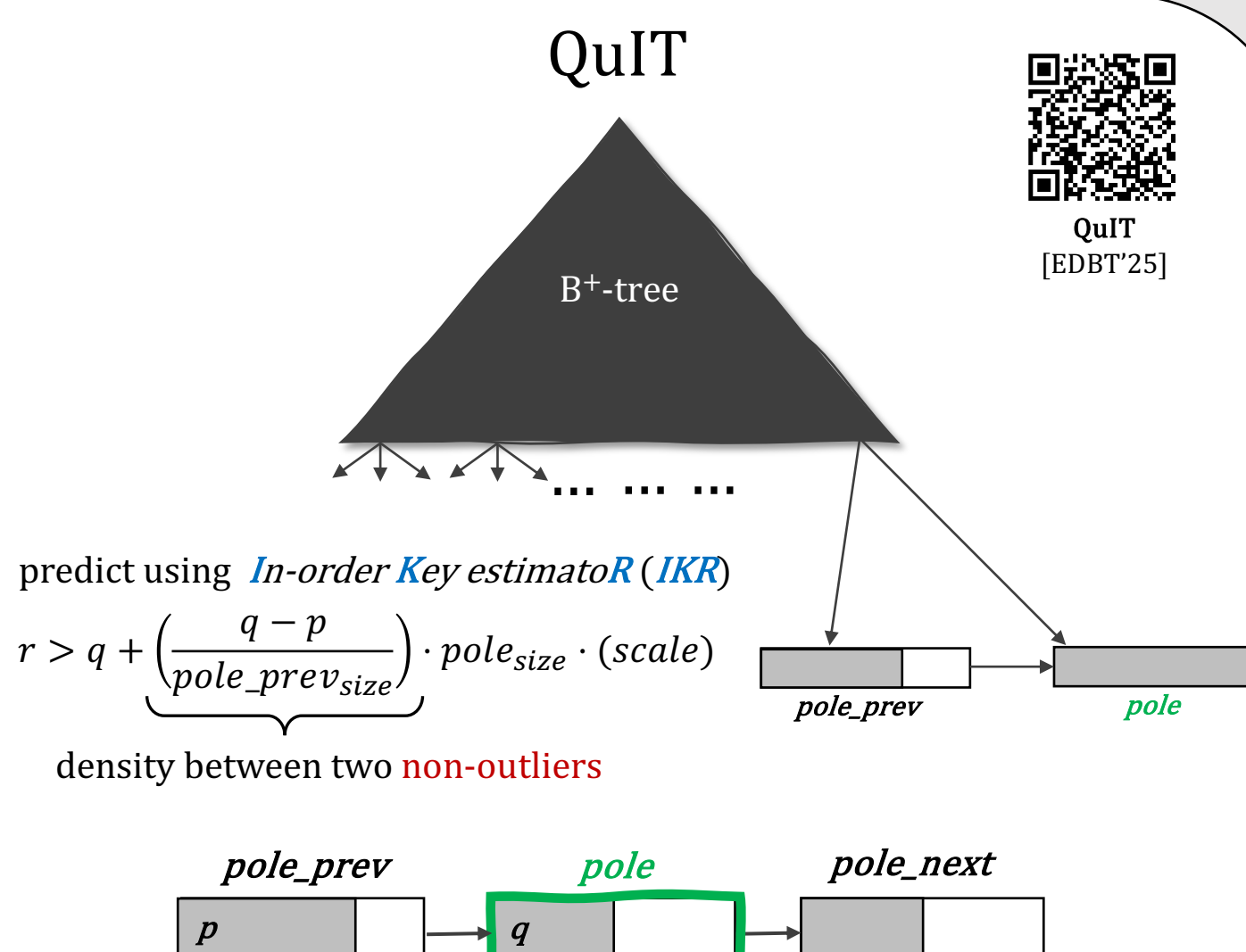
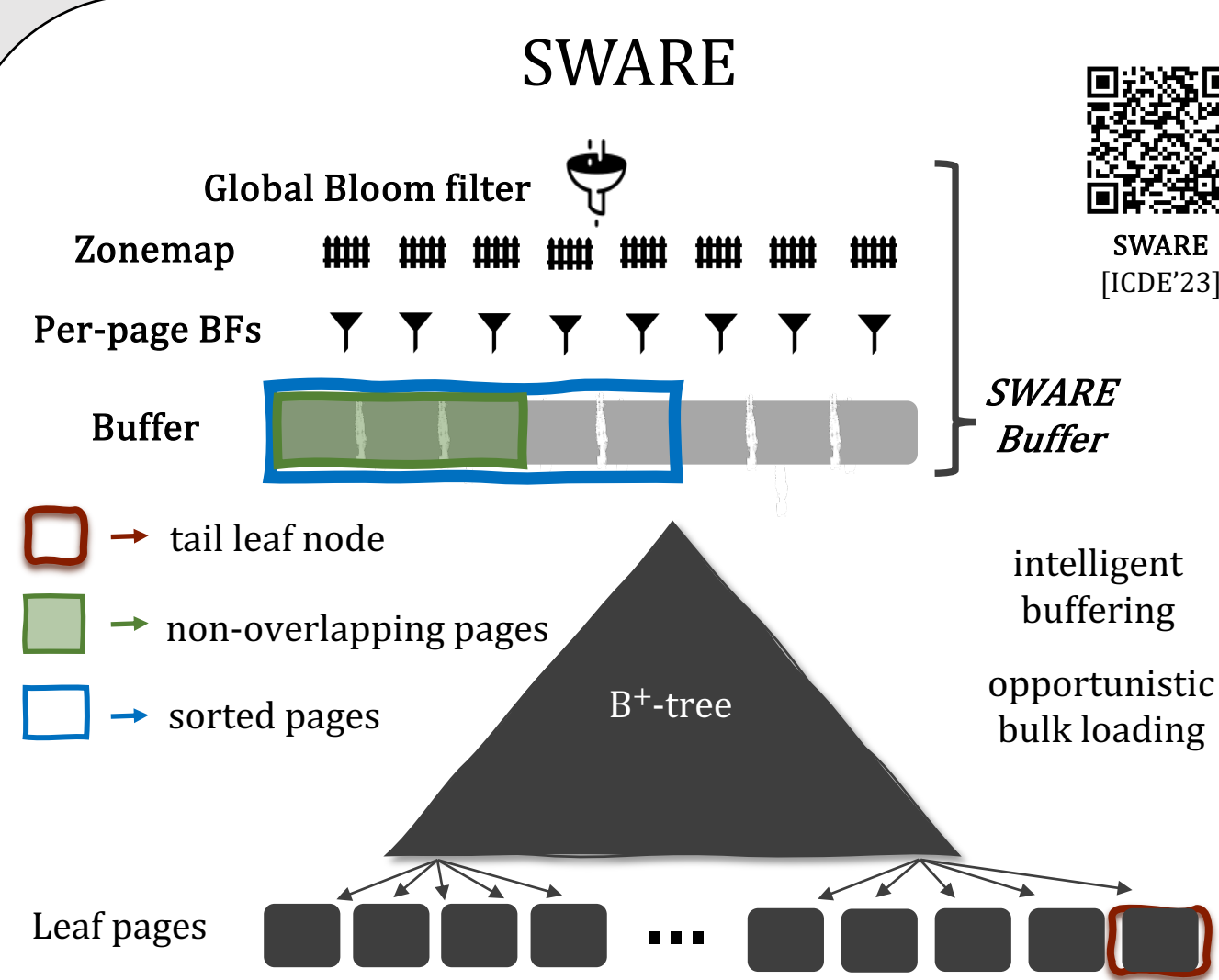
What if Data is Almost Sorted?



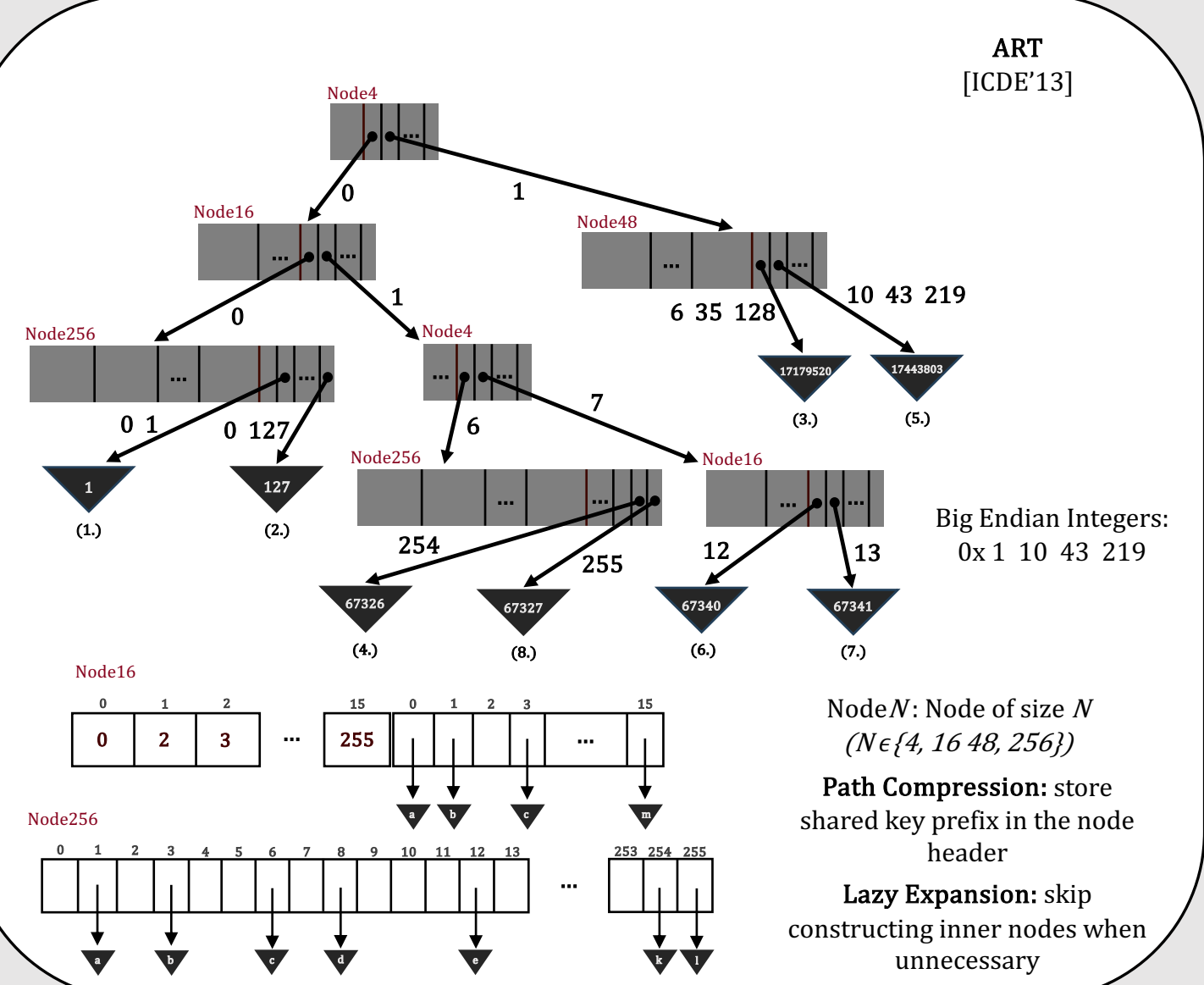
Near-sortedness in Practice



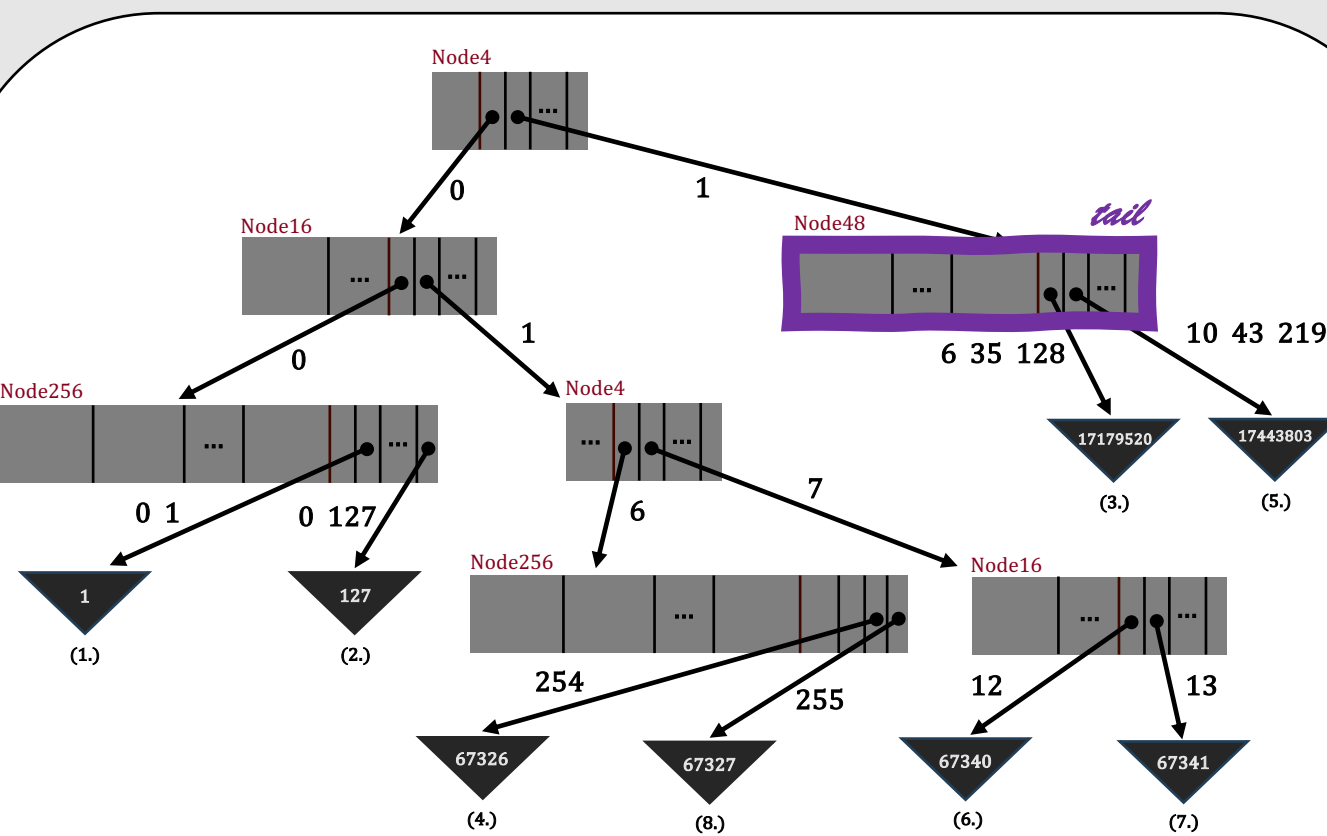
Prior Work on Harnessing Sortedness in Indexing



Adaptive Radix Tree (ART)

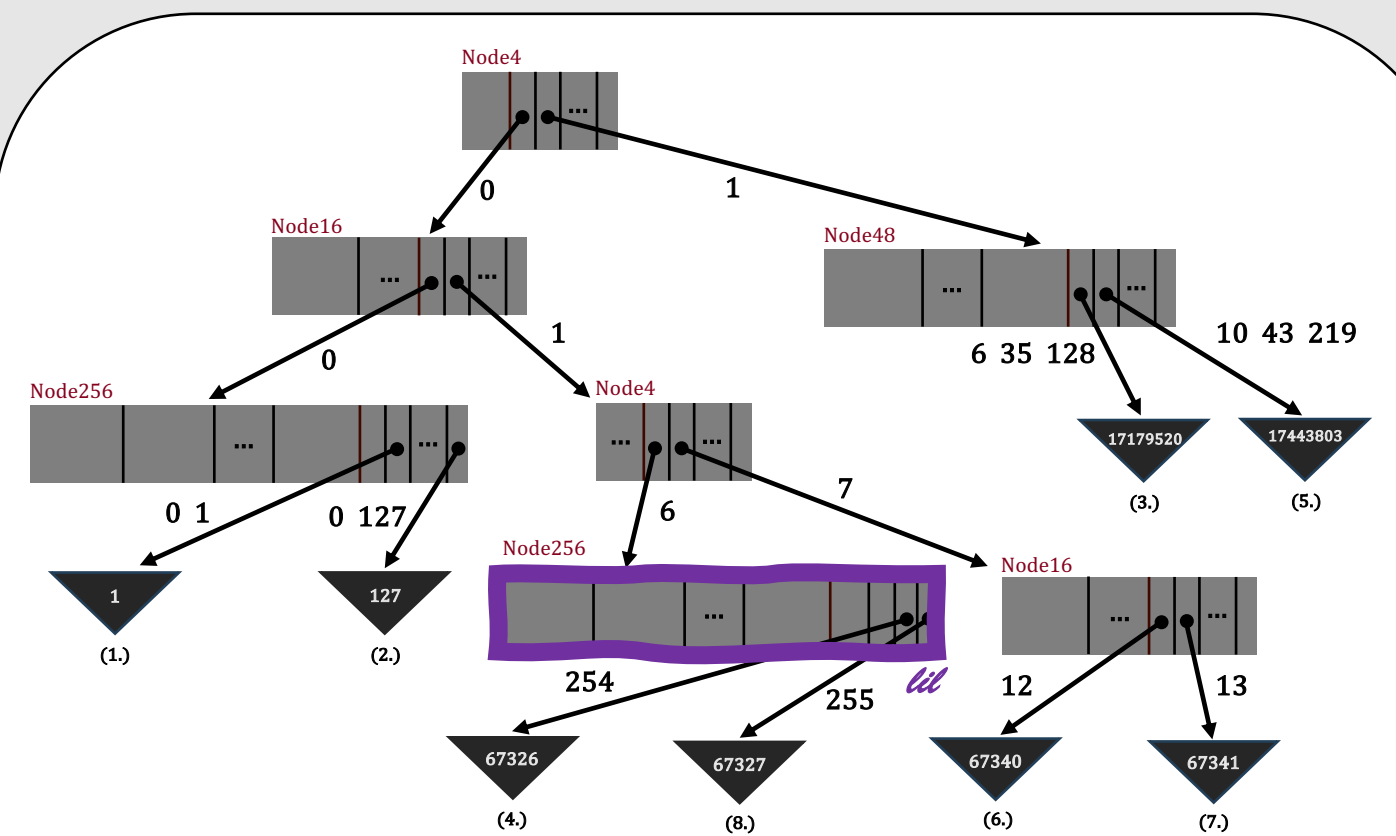


tail-leaf (tail)



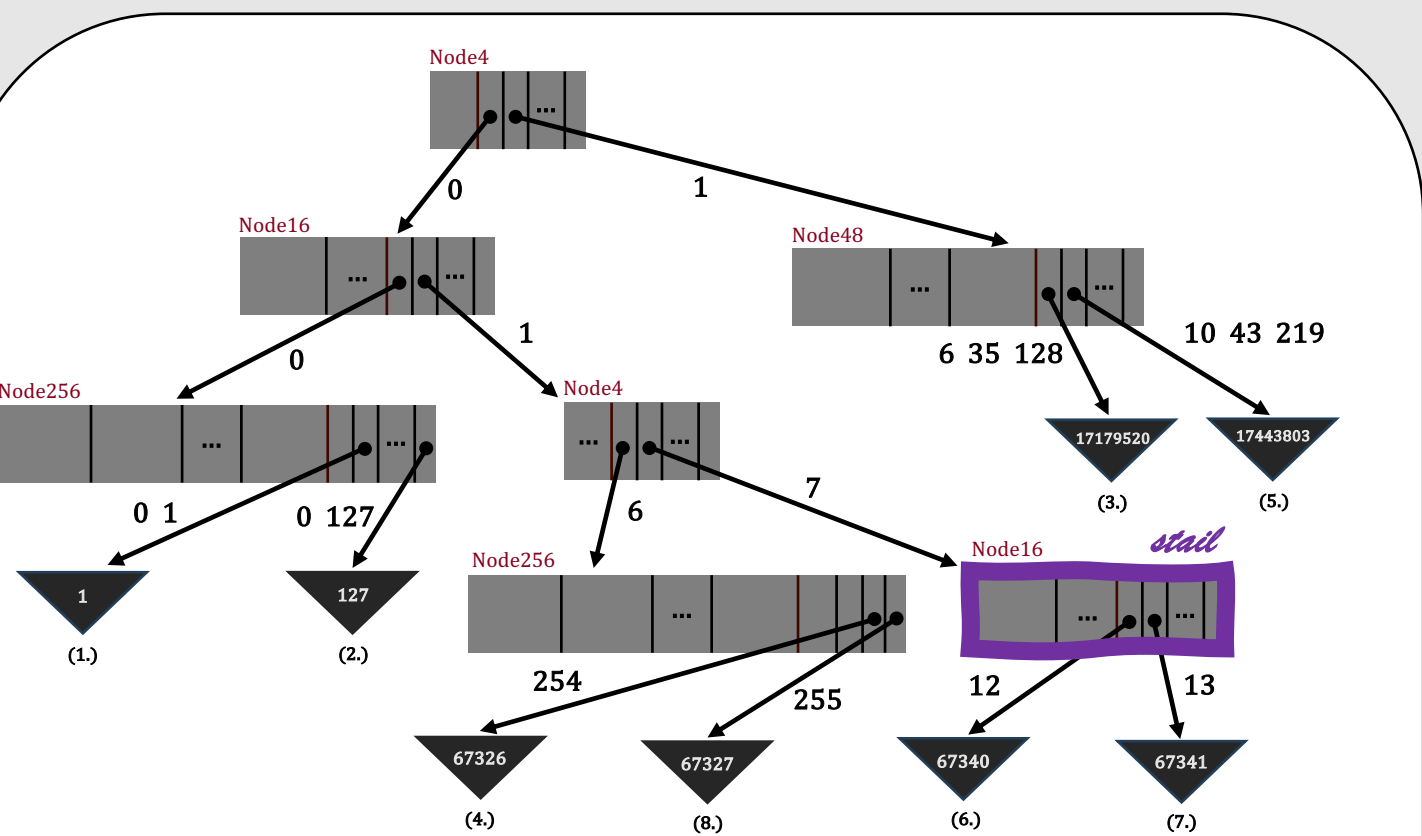
tail holds the largest key

last-inserted-leaf (lil)



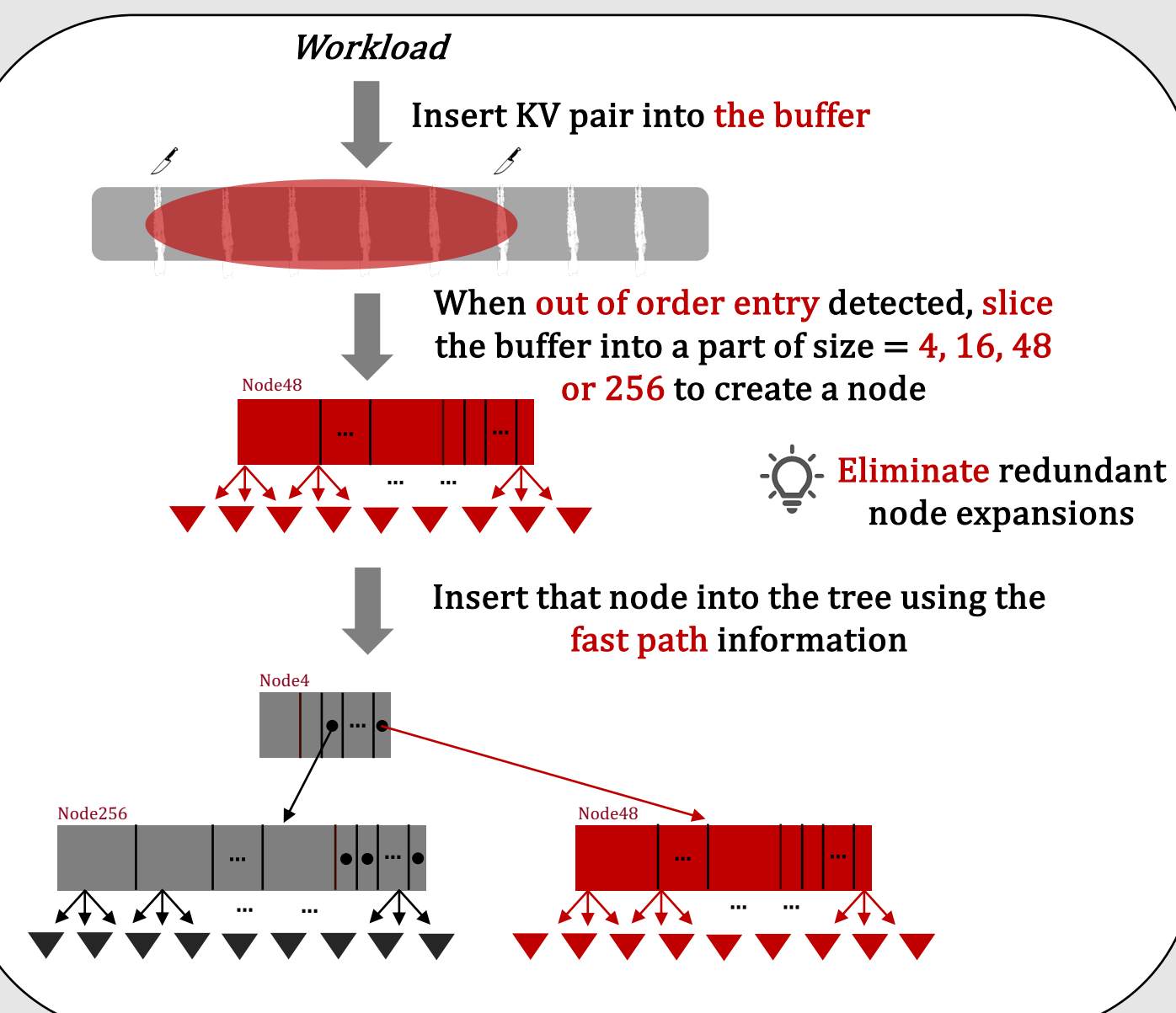
lil follows the last insertion

super-tail-leaf (stail)



"Do not change fast path pointer if an outlier key is inserted!"
Iterate over the first 3 bytes of the key
If mismatch with the perspective byte in the fast path, top insert
Else, fast insert

Opportunistic Bulk Loading



Results

